## **PENDING CLAIMS**

## Claims 1, 2, 5, 7 and 8

Claim 1. A method for treatment of urinary incontinence by administering compounds, having the formula:

or their salts, where:

 $A = R(COX)_t$  wherein t is an integer 0 or 1;

X = O, NH, NR<sub>1C</sub> wherein R<sub>1C</sub> is a linear or branched alkyl having from 1 to 10 C atoms;

R is chosen from the following groups:

Group I A), where t = 1,

where:

 $R_{II5}$  is H, a linear  $C_1$ - $C_3$  alkyl, or a branched  $C_1$ - $C_3$  alkyl;

R<sub>II6</sub> has the same structure as R<sub>II5</sub>,

 $R_{II1}$ ,  $R_{II2}$  and  $R_{II3}$  are each hydrogen, linear  $C_1$ - $C_6$  alkyl, branched  $C_1$ - $C_6$  alkyl,  $C_1$ - $C_6$  alkoxy,  $C_1$ ,  $C_1$ , or  $C_2$ 

 $R_{II4}$  has the same structure as  $R_{II1}$  or is bromine;

Group II A) chosen from the following:

where, when t = 1, R is

$$R_{la} - \int_{R_{3a}}^{R_{2a}}$$

where  $R_{2a}$  and  $R_{3a}$  are H, a linear  $C_1$ - $C_{12}$  alkyl, a branched  $C_1$ - $C_{12}$  alkyl, or allyl, with the proviso that when one of the two is allyl the other is H;

 $R_{1a}$  is chosen from the subgroup II Aa) consisting of

(XXXX)

(VI)

(ATTT)

(IX)

, and

## wherein:

in the residue of formula (IV):

 $R_{III1}$  is H or  $SR_{III3}$  where  $R_{III3}$  contains from 1 to 4 linear or branched C atoms; and  $R_{III2}$  is H or hydroxy;

in the residue of formula (XXI):

 $R_{xxio}$  is H, a linear alkyl having 1-6 carbon atoms, a branched alkyl having from 1 to 6 carbon atoms, a  $C_1$ - $C_6$  alkoxy-carbonyl bound to a  $C_1$ - $C_6$  carboxyalkyl, or a  $C_1$ - $C_6$  alkanoyl, optionally substituted with halogen, benzyl or halobenzyl, benzoyl or halobenzyl;

 $R_{xxi}$  is H, halogen, hydroxy, CN, a  $C_1$ - $C_6$  alkyl optionally containing OH groups, a  $C_1$ - $C_6$  alkoxy, acetyl, benzyloxy,  $SR_{xxi2}$  where  $R_{xxi2}$  is a  $C_1$ - $C_6$  alkyl; a perfluoroalkyl having a 1-3 C atoms, a  $C_1$ - $C_6$  carboxyalkyl optionally containing OH groups,  $NO_2$ , sulphamoyl, dialkyl sulphamoyl with the alkyl having from 1 to 6 C atoms, or difluoroalkylsulphonyl with the alkyl having from 1 to 3 C atoms;

 $R_{xxil}$  is halogen, CN, a  $C_1$ - $C_6$  alkyl optionally containing one or more OH groups, a  $C_1$ - $C_6$  alkoxy, acetyl, acetamido, or benzyloxy,

SR<sub>III3</sub> is as above defined, a perfluoroalkyl having from 1 to 3 C atoms, hydroxy, a carboxyalkyl having from 1 to 6 C atoms, hydroxy, a carboxyalkyl having from 1 to 6 C atoms, NO<sub>2</sub>, amino, mono- or dialkylamino having from 1 to 6 C atoms, sulphamoyl, a

dialkyl sulphamoyl having from 1 to 6 C atoms, difluoroalkylsulphamoyl; or  $R_{xxi}$  together with  $R_{xxil}$  is an alkylene dioxy having from 1 to 6 C atoms;

In the residue of formula (XXXV):

Ar is phenyl, hydroxyphenyl optionally mono- or polysubstituted with halogen, an alkanoyl or alkoxy having from 1 to 6 C atoms, a trialalkyl having from 1-6 C atoms, cyclopentyl o-hexyl o-heptyl, thienyl, furyl, furyl containing OH, or pyridyl;

Subgroup II Ab) consisting of:

(XXXVI)

(XXXVII)

wherein:

when IIIa) contains -CH(CH<sub>3</sub>)-COOH it is known as pranoprofen:  $\alpha$ -methyl-5H-(1) benzopyran (2,3-b) pyridine-7-acetic acid;

when residue (XXX) contains -CH(CH<sub>3</sub>) -COOH it is known as bermoprofen: dibenz (b,f) oxepin-2-acetic acid;

residue (XXXI) is known as CS-670: 2-(4-2(2-oxo-1-cyclohexylidenemethyl) phenyl) propionic acid, when the radical is -CH(CH<sub>3</sub>) -COOH;

when residue (XXXII) contains group -CH2COOH it is known as pemedolac;

when residue (XXXIII) is saturated with -CH<sub>2</sub>COOH it is known as pyrazolac: 4-(4-chlorophenyl)-1-(4-fluorophenyl) 3-pyrazolyl acid derivatives;

when residue (XXXVI) is saturated with -CH(CH<sub>3</sub>)-COO- it is known as zaltoprofen;

when residue (XXXVII) is  $CH_2$ -COOH it derives from the known mofezolac: 3,4-di p-methoxyphenyl) isoxazol-5-acetic acid; Group IIIA), where t=1,

wherein:

at least one of  $R_{lvd}$  and  $R_{lvd1}$  is H and the other a linear or branched  $C_1$ - $C_6$  alkyl, or difluoroalkyl with the alkyl having from 1-6 C atoms, or  $R_{lvd}$  and  $R_{lvd}$  jointly form a methylene group;

R<sub>IV</sub> has the following structure:

where:

in the residue of formula (II):

R<sub>IV-II</sub> is selected from the group consisting of an alkyl having from 1 to 6 C atoms, a cycloalkyl having from 3 to 7 C atoms, an alkoxymethyl having from 1 to 7 C atoms, a trifluoroalkyl having from 1 to 3 C atoms, vinyl, ethynyl, halogen, an alkoxy having from 1 to 6 C atoms, a difluroalkoxy with the alkyl having from 1 to 7 C atoms, an alkoxymethyloxy having from 1 to 7 C atoms, an alkylmethylthio with the alkyl having from 1 to 7 C atoms, cyano, difluoromethylthio, a substituted phenyl-, and phenylalkyl with the alkyl having from 1 to 8 C atoms;

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 $R_{\text{IV-III}}$  is a  $C_2$ - $C_5$  alkyl, a  $C_2$  or  $C_3$  alkyloxy, allyloxy, phenoxy, phenylthio, a cycloalkyl having from 5 to 7 C atoms, optionally substituted at position 1 by a  $C_1$ - $C_2$  alkyl; Group IV A)

where A = RCOO, t = 1,

Group V A) chosen from the following:

Subgroup V Aa) residues chosen from the following, where t = 1

(V Aa1)

(V Aa2)

(V Aa3)

(V Aa4)

subgroup V Ab), residue, where t = 1:

(V Ab1)

subgroup V Ac), residue, where t = 0 and R is as follows:

(V Acl)

(V Ac2)

(V Ac3)

(V Ac4)

subgroup V Ad) residues, where t = 1 and R is as follows:

(V Ad4)

subgroup Ae) residues, where t = 1 and R is as follows:

(V Ae3)

(▼ Ae4)

(V Ae5)

(V Ae6)

wherein:

in compounds (V Ac1) Rvac1 attached to the oxygen atom in position 2 of the benzene ring of the N - (4-nitro-phenyl)methansulphonamide can be phenyl or cyclohexane, when Rvac1 is phenyl the residue is that of nimesulfide;

in compounds (V Ac2) the residue of 3-formylamino-7-methylsulfonylamino-6phenoxy-4H-1-bezopyran-4-one has been shown;

in compounds (V Ac3) the atom  $X_4$  that links the radical 2,4-difluorothiophenyl to position 6 of the indanone ring of the residue 5-methanesulfonamido-1-indanone can be sulfur or oxygen;

 $X_1$  in formula A- $X_1$ -NO $_2$  is a bivalent connecting bridge chosen from the following:

- YO

where Y is a linear or branched C<sub>1</sub>-C<sub>20</sub> alkylene, or an optionally substituted cycloalkylene having from 5 to 7 carbon atoms;

where n<sub>3</sub> is an integer from 0 to 3;

where nf' is an integer from 1 to 6;

where  $R_{1f} = H$  or  $CH_3$  and  $R_3$  and  $R_4$  is an integer from 1 to 6.

Claim 2. The method according to Claim 1, in which R is chosen from groups IV A) and V A).

Claim 5. A method for the treatment of musculoskeletal disease of an inflammatory nature, gynaecological and obstetrical disease including early delivery, pre-eclampsia and dysmenorrhoea, cardiovascular disease including re-stenosis, gastrointestinal tumors by administering compounds from group V A) according to Claim 3.

## Claim 7. A compound having the following formula:

Claim 8. A method for treating urinary incontinence comprising administering to a patient in need thereof a therapeutically effective amount of the compound of claim 7 or a pharmaceutically acceptable salt thereof.